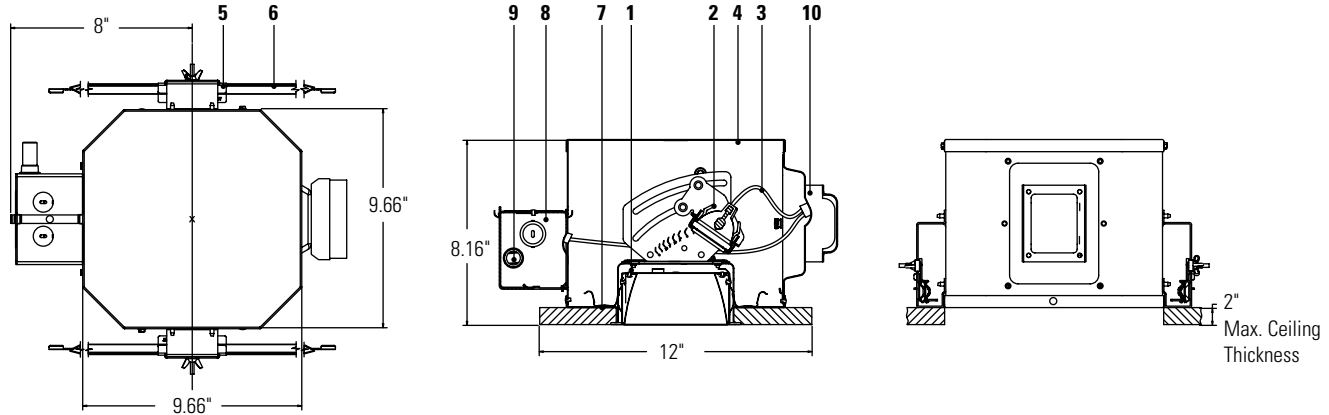


Calculite® Matrix Low Voltage Lensed Adj. Accent **C4X4MRW**

Page 1 of 2

4½" X 4½" Square Aperture (1) MR16 Low Voltage



Ceiling Cutout: 5 1/4" x 5 1/4" (130 mm x 130mm) Dia.

Ordering Information

Frame-In Kits	Reflector Trims	Finish/Flange	Lamp
C4X4LVMU Magnetic 120/277V C4X4LVE1 Electronic 120V C4X4LVE2 Electronic 277V	C4X4MRWCLW C4X4MRWCPL C4X4MRWCCLW C4X4MRWCCLP C4X4MRWCCDW C4X4MRWCCDP C4X4MRWWHW	Specular Clear/White Specular Clear/Polished Comfort Clear/White Comfort Clear/Polished Comfort Clear Diffuse/White Comfort Clear Diffuse/Polished White/White	(1) 12V MR16 Type Lamp 65W Max or IR 37W Max

Features

- 1. Reflector Trim:** Available with integral flange in painted white or polished to match inside of cone.
- 2. Lamp Holder/Trim Adjustment Assembly:** Unitized optics ensure alignment of lamp and aperture cone regardless of ceiling thickness. Patented EZ Aim™ gear-driven adjustment features an optimized lamp path to maximize light output at tilt angles up to 45°. Aiming indicator ensures accurate lamp positioning. Prismatic lens ships standard. Adjust trim kit vertically to accommodate up to 2" thick ceiling.
- 3. Socket:** Ceramic body with mica cover, GX5.3 (MR-16) base.
- 4. Frame Housing:** Steel, 0.029" (22-Ga.), matte black finish.
- 5. Frame Vertical Adjustment Mechanism:** Accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or ½" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be pre-set prior to installation. Final adjustment can be made from below from inside the fixture.
- 6. Mounting Bars:** Galvanized steel, 0.048" (18-ga.), pre-installed telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- 7. Retention Springs:** Rust resistant springs secure trim for quick, tool-less installation.
- 8. Junction Box:** 0.059" (16-ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors. Allows inspection from below.
- 9. Thermal Protector:** Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.
- 10. Transformer:** Replaceable from below. Magnetic: 120/277V 60 Hz. Dual-voltage, core & coil. Electronic: 120V or 277V 50/60 Hz., regulated lamp voltage, HPF, EMI and circuit protections, thermal auto-reset, quiet operation.

Options and Accessories

Accepts two optical accessories
 2" diameter color filters/specialty filters: ADF2/AF2
 2" diameter louver: AL2HC

Labels

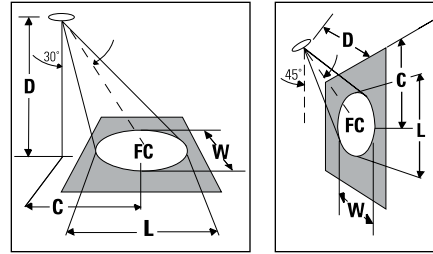
UL, cUL (Suitable for Wet Locations)

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

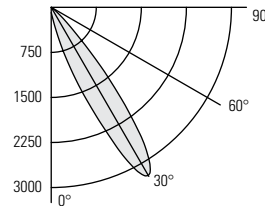
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LIGHTOLIER®

(FC) is initial footcandles at center of beam. Beam length (L) and beam width (W) are to where the candlepower is reduced to 50% of the center beam candlepower. (C) is the distance to the center of the beam.



4½" x 4½" Aperture 50W MR16 - 15°



Angle	CP
0	87
5	136
10	278
15	713
20	1478
25	2537
30	3228
35	2577
40	1289
45	420
50	119
55	12
60	0
65	0
70	0
75	0
80	0
85	0
90	0

50W MR 16 15° SP

Lamp @ 30° Vertical Tilt

Lumen Rating = 800 LMS.

CBCP = 3228 CD

Beam Angle = 15°

Test Report No. 3500FR

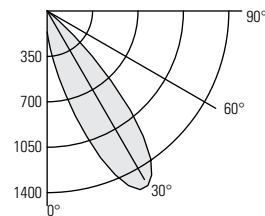
30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	58	2.1'	1.8'
8'	4.6'	33	2.8'	2.4'
10'	5.8'	21	3.5'	3.0'
12'	6.9'	15	4.2'	3.6'
15'	8.7'	9	5.3'	4.6'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	101	2.2'	1.1'
3'	5.2'	45	3.3'	1.6'
4'	6.9'	25	4.4'	2.1'
6'	10.4'	11	6.7'	3.2'
8'	13.9'	6	8.9'	4.2'

4½" x 4½" Aperture 50W MR16 - 25°



Angle	CP
0	161
5	299
10	522
15	835
20	1204
25	1485
30	1553
35	1392
40	999
45	487
50	115
55	6
60	1
65	1
70	0
75	0
80	0
85	0
90	0

50W MR 16 25° FL

Lamp @ 30° Vertical Tilt

Lumen Rating = 800 LMS.

CBCP = 1553 CD

Beam Angle = 25°

Test Report No. 3501FR

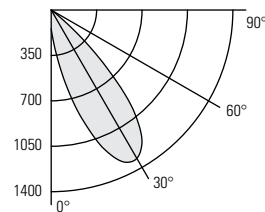
30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	28	3.6'	3.1'
8'	4.6'	16	4.8'	4.1'
10'	5.8'	10	6.0'	5.1'
12'	6.9'	7	7.2'	6.1'
15'	8.7'	4	9.0'	7.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	49	4.2'	1.8'
3'	5.2'	22	6.2'	2.7'
4'	6.9'	12	8.3'	3.5'
6'	10.4'	5	12.5'	5.3'
8'	13.9'	3	16.6'	7.1'

4½" x 4½" Aperture 50W MR16 - 40°



Angle	CP
0	144
5	277
10	516
15	823
20	1107
25	1287
30	1320
35	1219
40	957
45	526
50	133
55	4
60	1
65	0
70	0
75	0
80	0
85	0
90	0

50W MR 16 40° FL

Lamp @ 30° Vertical Tilt

Lumen Rating = 800 LMS.

CBCP = 1320 CD

Beam Angle = 30°

Test Report No. 3502FR

30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	24	5.2'	4.4'
8'	4.6'	13	7.0'	5.8'
10'	5.8'	9	8.7'	7.3'
12'	6.9'	6	10.4'	8.7'
15'	8.7'	4	13.0'	10.9'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	41	7.2'	2.5'
3'	5.2'	18	10.8'	3.8'
4'	6.9'	10	14.4'	5.0'
6'	10.4'	5	21.6'	7.6'
8'	13.9'	3	28.8'	10.1'

Job Information

Type:

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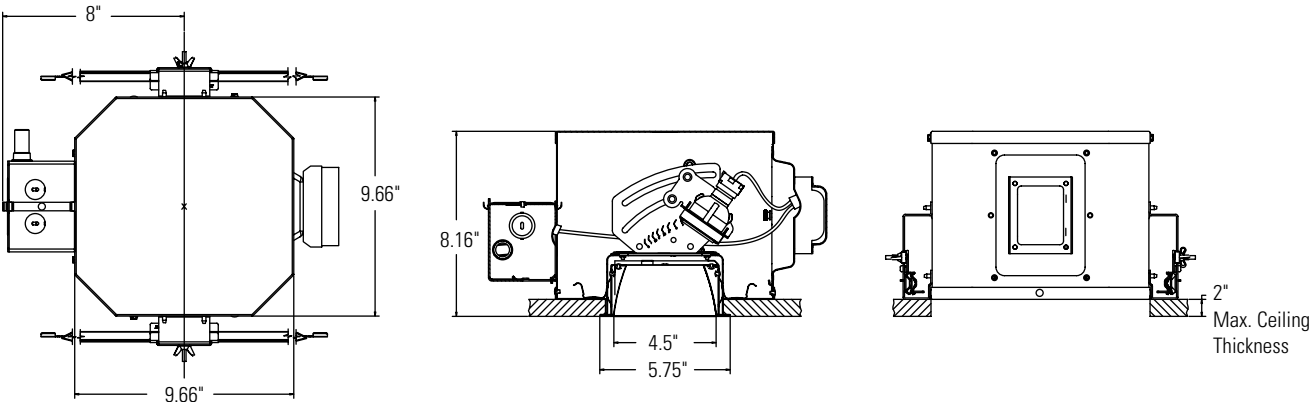
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Calculite® Matrix HID Lensed Adj. Accent **C4X4MRW**

Page 1 of 1

4½" X 4½" Square Aperture (1) 20W CMH MR16



Ceiling Cutout: 5 1/4" x 5 1/4" (130 mm x 130mm) Dia.

Ordering Information

Frame-In Kits	Reflector Trims	Finish/Flange	Lamp
C4X420MREU Electronic 120/277V	C4X4MRWCLW C4X4MRWCPL C4X4MRWCCLW C4X4MRWCCLP C4X4MRWCDDW C4X4MRWCDDP C4X4MRWVHW	Specular Clear/White Specular Clear/Polished Comfort Clear/White Comfort Clear/Polished Comfort Clear Diffuse/White Comfort Clear Diffuse/Polished White/White	(1) 20W MR16 CMH GX1C Base

Features

- 1. Reflector Trim:** 55° physical and reflected cutoff. Available with integral flange painted white or polished to match inside of cone.
- 2. Lamp Holder/Trim Adjustment Assembly:** Unitized optics ensure alignment of lamp and aperture cone regardless of ceiling thickness. Patented EZ Aim™ gear-driven adjustment features an optimized lamp path to maximize light output at tilt angles up to 45°. Aiming indicator ensures accurate lamp positioning. Solite lens ships standard. Adjust trim kit vertically to accommodate up to 2" thick ceiling.
- 3. Socket:** Twist and lock base. 5kV (600V) pulse rated PPS, black T240 body socket with nickel-plated contacts. 18 AWG silicone leads with fiberglass outer sleeve.
- 4. Frame Housing:** Steel, 0.029" (22-Ga.), matte black finish. Removable cover for top relamping.
- 5. Frame Vertical Adjustment Mechanism:** Accommodates mounting to virtually any ceiling system using pre-installed mounting bars, or ½" EMT tubing (by others). Single locking feature secures all adjustments. Alignment holes and markings allow fixture to be pre-set prior to installation. Final adjustment can be made from below from inside the fixture.
- 6. Mounting Bars:** Galvanized steel, 0.048" (18-ga.), pre-installed telescoping bars extend to 30" long and lock securely into position. Built-in locking tabs provide positive attachment to common T-bar systems. Self-centering feature simplifies installation in 24" O.C. grid systems. Attaches to steel or wood joists without accessories.
- 7. Retention Springs:** Rust resistant springs secure trim for quick, tool-less installation.
- 8. Ballast/Cover Assembly:** Accessible from below and removable without tools for inspection and ballast replacement.
- 9. Junction Box:** 0.059" (16-ga.) galvanized steel. UL listed for 8 No. 12 AWG, 90°C through branch circuit conductors. Allows inspection from below.
- 10. Thermal Protector:** Meets NEC and UL requirements. Do not install insulation above nor within 3" (76mm) of any part of the luminaire.
- 11. Electronic Ballast:** 120 or 277V, 50/60 Hz., encased, high power factor >0.99, THD <10%, thermally and transient protected, RMI/RFI complies with FCC Part 18 non-consumer limits, shut-down at end of lamp life, sound rating "A", Minimum starting temperature -30°, Type 1 Outdoor rating.

Features (continued)

Ballast	ANSI Code	Voltage	Max. Amps	Input Watts
20W MH	M156	120/277V	0.20/0.09	22

Options and Accessories

Accepts one optical accessory
2" diameter color filter/specialty filter: ADF2/AF2
2" diameter louver: AL2HC

Labels

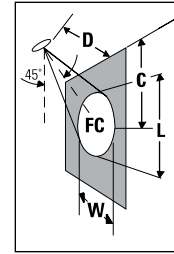
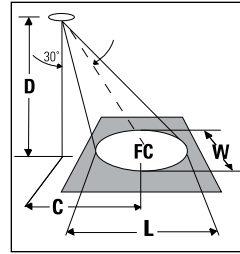
UL, cUL (Suitable For Wet Locations)

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

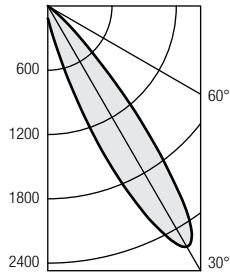
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LIGHTOLIER®

(FC) is initial footcandles at center of beam. Beam length (L) and beam width (W) are to where the candlepower is reduced to 50% of the center beam candlepower. (C) is the distance to the center of the beam.



4½" x 4½" Aperture 20W CMH MR16 - 12°



Angle	CP
0	117
5	166
10	297
15	644
20	1352
25	2138
30	2595
35	2154
40	1201
45	476
50	159
55	26
60	0
65	0
70	0
75	0
80	0
85	0
90	0

20W G.E.HID MR16 12° SP,
GX10 BASE

Lamp @ 30° Vertical Tilt

Lumen Rating = 1000 LMS.
CBCP = 2595 CD

Beam Angle = 16°

Test Report No. 3421FR

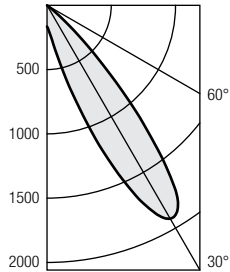
30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	47	1.7'	1.5'
8'	4.6'	26	2.3'	1.9'
10'	5.8'	17	2.8'	2.4'
12'	6.9'	12	3.4'	2.9'
14'	8.1'	9	3.9'	3.4'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	81	1.7'	0.8'
3'	5.2'	36	2.6'	1.3'
4'	6.9'	20	3.5'	1.7'
5'	8.7'	13	4.3'	2.1'
6'	10.4'	9	5.2'	2.5'

4½" x 4½" Aperture 20W CMH MR16-25°



Angle	CP
0	165
5	210
10	335
15	628
20	1107
25	1630
30	1914
35	1730
40	1075
45	453
50	104
55	7
60	2
65	1
70	1
75	1
80	1
85	1
90	1

20W G.E.HID MR16 40° FL,
GX10 BASE

Lamp @ 30° Vertical Tilt

Lumen Rating = 1000 LMS.
CBCP = 1914 CD

Beam Angle = 22°

Test Report No. 3418FR

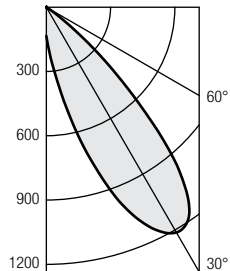
30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	35	3.1'	2.7'
8'	4.6'	19	4.2'	3.6'
10'	5.8'	12	5.2'	4.5'
12'	6.9'	9	6.3'	5.4'
14'	8.1'	6	7.3'	6.3'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	60	3.5'	1.6'
3'	5.2'	27	5.3'	2.3'
4'	6.9'	15	7.0'	3.1'
5'	8.7'	10	8.8'	3.9'
6'	10.4'	7	10.5'	4.7'

4½" x 4½" Aperture 20W CMH MR16-40°



Angle	CP
0	134
5	241
10	417
15	676
20	940
25	1128
30	1214
35	1164
40	928
45	541
50	225
55	43
60	3
65	0
70	1
75	1
80	0
85	1
90	0

20W G.E.HID MR16 40° FL,
GX10 BASE

Lamp @ 30° Vertical Tilt

Lumen Rating = 1000 LMS.
CBCP = 1214 CD

Beam Angle = 30°

Test Report No. 3416FR

30° Aiming Angle - Horizontal Surface

D	C	FC	L	W
6'	3.5'	22	4.4'	3.7'
8'	4.6'	12	5.9'	5.0'
10'	5.8'	8	7.3'	6.2'
12'	6.9'	5	8.8'	7.4'
14'	8.1'	4	10.2'	8.7'

30° Aiming Angle - Vertical Surface

D	C	FC	L	W
2'	3.5'	38	5.5'	2.1'
3'	5.2'	17	8.2'	3.2'
4'	6.9'	9	10.9'	4.3'
5'	8.7'	6	13.7'	5.4'
6'	10.4'	4	16.4'	6.4'

Job Information

Type:

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